AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the

application. The following listing provides the amended claims with the amendments marked

with deleted material crossed out and new material underlined to show the changes made.

(Currently Amended) A method for sealing a computer program, said method 1.

comprising:

dividing said computer program into a plurality of pages, wherein said dividing is

based on size of memory allocation in memory;

calculating a hash value for each of said pages;

creating a hash array with said hash values of said pages;

digitally signing said hash array to create creating a digital signature for said hash

array; and

2.

3.

grouping said computer program with said hash array and said digital signature.

(Currently Amended) The method as recited in claim 1, wherein calculating said

hash value comprises calculating a SHA hash value.

The method as recited in claim 1 further comprising: (Original)

distributing said computer program, said hash array, and said digital signature.

(Currently Amended) The method as recited in claim 2, wherein digitally signing 4.

said hash array to create creating a digital signature for said hash array comprises:

calculating an array hash value for said hash array; and

digitally signing said array hash value.

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5. (Original) The method as recited in claim 4, wherein digitally signing said

array hash value comprises creating said digital signature with a private key and a public key

encryption key function.

6.

(Original) The method as recited in claim 1, wherein grouping said computer

program with said hash array and said digital signature comprises storing said computer program,

said hash array, and said digital signature together.

7. (Original) The method as recited in claim 1, wherein said computer program

comprises an operating system.

8. (Currently Amended) A method for authenticating a computer program, said

method comprising:

verifying the authenticity of a hash value array that accompanied said computer

program by using a digital signature of said hash value array that accompanied said computer

program, wherein prior to verifying the authenticity of the hash array, said computer program

was divided into a plurality of pages based on size of memory allocation in memory;

loading a page from the plurality of pages of said computer program;

calculating a calculated hash value for said loaded page of said computer program;

comparing said calculated hash value for said <u>loaded</u> page of said computer

program with an associated hash value for said loaded page of said computer program from said

hash value array; and

generating an error if said calculated hash value for said loaded page of said

computer program does not match said associated hash value.

9. (Currently Amended) The method as recited in claim 8, wherein verifying the

authenticity of said hash value array comprises:

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computer program; and

comparing said array hash value with said digital signature of said hash value array using

a public key.

(Currently Amended) The method as recited in claim 8, wherein verifying the 10.

authenticity of a the hash value array that accompanied said computer program by using a the

digital signature of said hash value array comprises testing said digital signature with a public

key and public key encryption key function.

11. (Currently Amended) The method as recited in claim 8 further comprising

repeating said steps of loading, calculating, comparing, and generating as additional pages from

the plurality of pages of said computer program are needed for execution.

(Currently Amended) The method as recited in claim 8, wherein calculating said 12.

calculated hash value comprises calculating a SHA hash value.

(Currently Amended) The method as recited in claim 8, wherein generating said 13.

error if said calculated hash value for said <u>loaded</u> page of said computer program does not match

said associated hash value comprises indicating a page fault.

14. (Currently Amended) The method as recited in claim 8, wherein generating said

error if said calculated hash value for said <u>loaded</u> page of said computer program does not match

said associated hash value comprises indicating a page read error.

15. (Currently Amended) The method as recited in claim 8, wherein generating said

error if said calculated hash value for said loaded page of said computer program does not match

said associated hash value comprises indicating a verification error.

(Currently Amended) The method as recited in claim 8, wherein said computer 16.

program comprises an operating system.

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17. (Currently Amended) The method as recited in claim 8 further comprising-:

swapping out said hash value array; and

re-verifying the authenticity of said hash value array after swapping said hash

value array back in.

18. (Currently Amended) A computer-readable medium comprising containing a set

of computer instructions, said computer instructions for authenticating a computer program by:

verifying the authenticity of a hash value array that accompanied said computer

program by using a digital signature of said hash value array that accompanied said computer

program, wherein prior to the computer instructions verifying the authenticity of the hash array,

said computer program was divided into a plurality of pages based on size of memory allocation

in memory;

loading a page from the plurality of pages of said computer program;

calculating a calculated hash value for said loaded page of said computer program;

comparing said calculated hash value for said loaded page of said computer

program with an associated hash value for said loaded page of said computer program from said

hash value array; and

generating an error if said calculated hash value for said loaded page of said

computer program does not match said associated hash value.

19. (Currently Amended) The computer-readable medium as recited in claim 18,

wherein verifying the authenticity of said hash value array comprises:

calculating an array hash value for an array of hash values that accompanies said

computer program; and

comparing said array hash value with said digital signature of said hash value

array using a public key.

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Attorney Docket: APLE.P0011 PTO Serial: 10/666,847 20. (Currently Amended) The computer-readable medium as recited in claim 18, wherein verifying the authenticity of a the hash value array that accompanied said computer program by using a the digital signature of said hash value array comprises testing said digital signature with a public key and a public key encryption key function.

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